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 DICTIONARY FILE UPDATES: 17 OCT 2007 HIGHEST RN 950885-37-7

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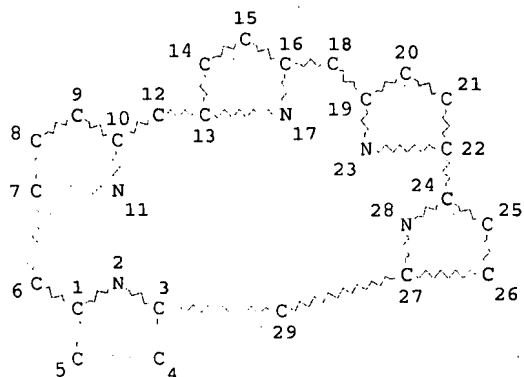
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 on property searching in REGISTRY, refer to:

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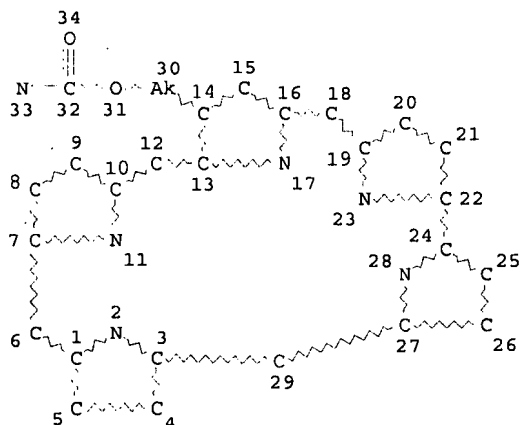
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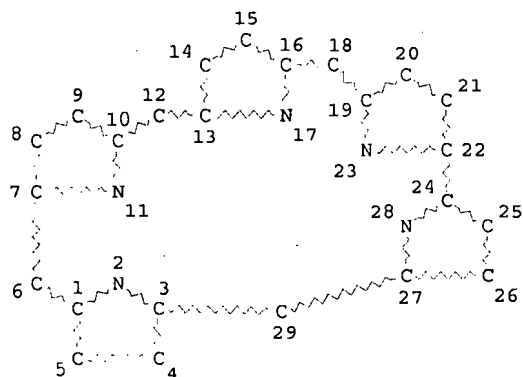
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9 ANSWERS

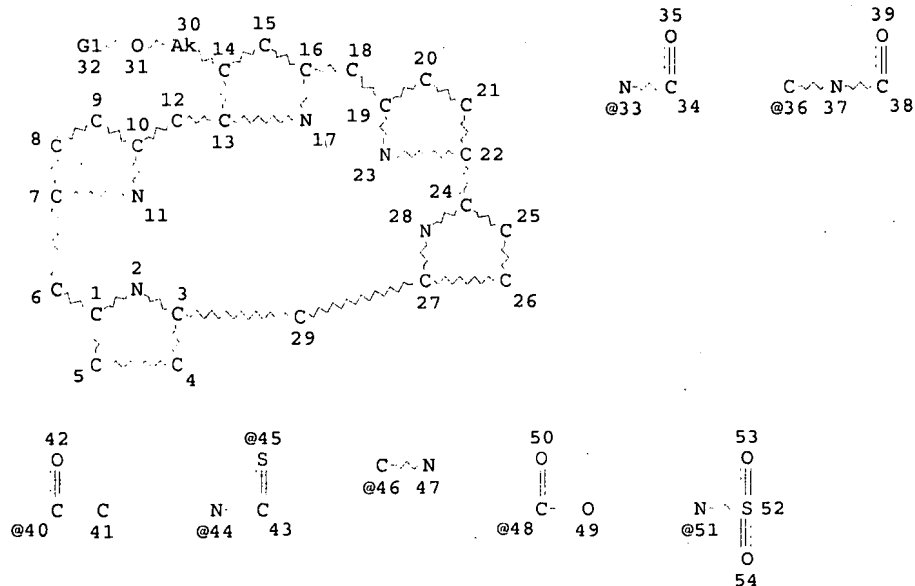
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STEREO ATTRIBUTES: NONE  
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Page 1-A

HO- C C  
55 @56 57

Page 2-A

VAR G1=33/44/45/36/40/46/48/51/56

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NUMBER OF NODES IS 57

STEREO ATTRIBUTES: NONE

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100.0% PROCESSED 184 ITERATIONS

13 ANSWERS

SEARCH TIME: 00.00.01

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FILE 'HCAPLUS' ENTERED AT 15:21:37 ON 18 OCT 2007

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FILE COVERS 1907 - 18 Oct 2007 VOL 147 ISS 17

FILE LAST UPDATED: 17 Oct 2007 (20071017/ED)

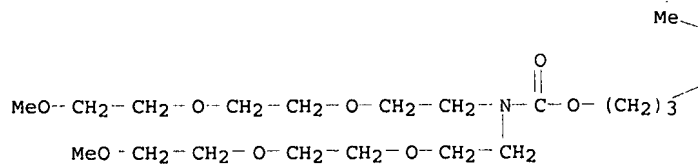
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This file contains CAS Registry Numbers for easy and accurate substance identification.

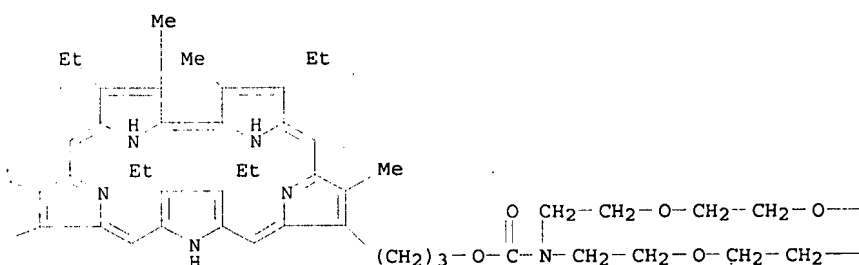
=> d bib abs hitstr l14 tot

L14 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN  
 AN 2007:162374 HCAPLUS  
 DN 146:492765  
 TI Synthesis and biologic properties of hydrophilic sapphyrins, a new class of tumor-selective inhibitors of gene expression  
 AU Wang, Zhong; Lecane, Philip S.; Thiemann, Patricia; Fan, Qing; Cortez, Cecilia; Ma, Xuan; Tonev, Danielle; Miles, Dale; Naumovski, Louie; Miller, Richard A.; Magda, Darren; Cho, Dong-Gyu; Sessler, Jonathan L.; Pike, Brian L.; Yeligar, Samantha M.; Karaman, Mazen W.; Hacia, Joseph G.  
 CS Pharmacocyclics, Inc., Sunnyvale, CA, USA  
 SO Molecular Cancer (2007), 6, No pp. given  
 CODEN: MCOACG; ISSN: 1476-4598  
 URL: <http://www.molecular-cancer.com/content/pdf/1476-4598-6-9.pdf>  
 PB BioMed Central Ltd.  
 DT Journal; (online computer file)  
 LA English  
 AB Background: Sapphyrin analogs and related porphyrin-like species have attracted attention as anticancer agents due to their selective localization in various cancers, including hematol. malignancies, relative to surrounding tissues. Sapphyrins are electron affinic compds. that generate high yields of singlet oxygen formation. Although initially explored in the context of photodynamic therapy, sapphyrins have intrinsic anticancer activity that is independent of their photosensitizing properties. However, the mechanisms for their anticancer activity have not been fully elucidated. Results: the authors have prepared a series of hydrophilic sapphyrins and evaluated their effect on proliferation, uptake, and cell death in adherent human lung (A549) and prostate (PC3) cancer cell lines and in an A549 xenograft tumor model. PCI-2050, the sapphyrin derivative with the highest in vitro growth inhibitory activity, significantly lowered 5-bromo-2'-deoxyuridine incorporation in S-phase A549 cells by 60% within eight hours and increased levels of reactive oxygen species within four hours. The growth inhibition pattern of PCI-2050 in the National Cancer Institute 60 cell line screen correlated most closely using the COMPARE algorithm with known transcriptional or translational inhibitors. Gene expression analyses conducted on A549 plateau phase cultures treated with PCI-2050 uncovered wide-spread decreases in mRNA levels, which especially affected short-lived transcripts. Intriguingly, PCI-2050 increased the levels of transcripts involved in RNA processing and trafficking, transcriptional regulation, and chromatin remodeling. The authors propose that these changes reflect the activation of cellular processes aimed at countering the observed wide-spread redns. in transcript levels. In the authors' A549 xenograft model, the two lead compds., PCI-2050 and PCI-2022, showed similar tumor distributions despite differences in plasma and kidney level profiles. This provides a possible explanation for the better tolerance of PCI-2022 relative to PCI-2050. Conclusion: Hydrophilic sapphyrins were found to display promise as novel agents that localize to tumors, generate oxidative stress, and inhibit gene expression.  
 IT 924905-80-6, PCI 2050 936576-25-9, PCI 2012 936576-26-0, PCI 2022 936576-27-1, PCI 2042  
 RL: ADV (Adverse effect, including toxicity); DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (hydrophilic sapphyrins were found to display promise as novel agents that localize to tumors, generate oxidative stress, and inhibit gene expression)  
 RN 924905-80-6 HCAPLUS  
 CN 5,8,11-Trioxa-2-azadodecanoic acid, 2-[2-[2-(2-methoxyethoxy)ethoxy]ethyl]-, 1,1'-[(4,13,14,23-tetraethyl-3,8,19,24-tetramethyl-25,26,27,28,29-pentaazahexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-propanediyl] ester (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



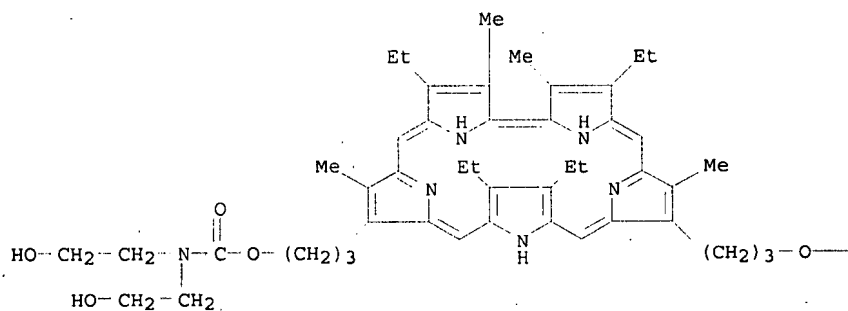
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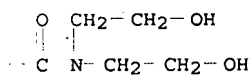
RN 936576-25-9 HCAPLUS

CN Carbamic acid, N,N-bis(2-hydroxyethyl)-, C,C'-[(4,13,14,23-tetraethyl-3,8,19,24-tetramethyl-25,26,27,28,29-pentaazahehexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-propanediyl] ester (CA INDEX NAME)

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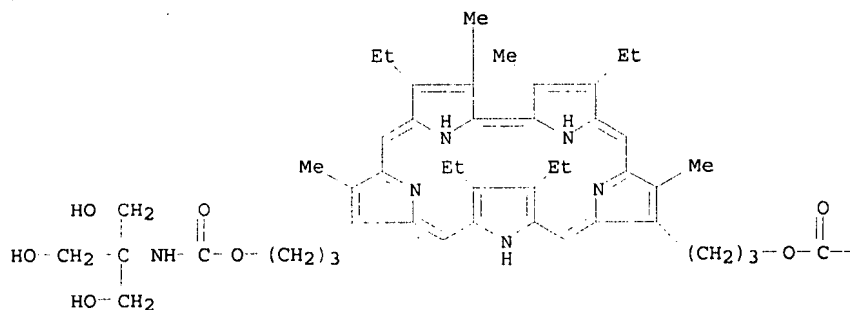


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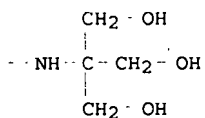


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 1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-  
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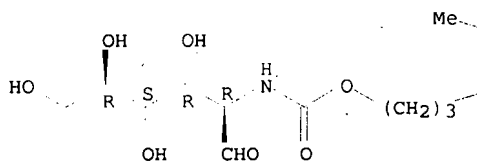
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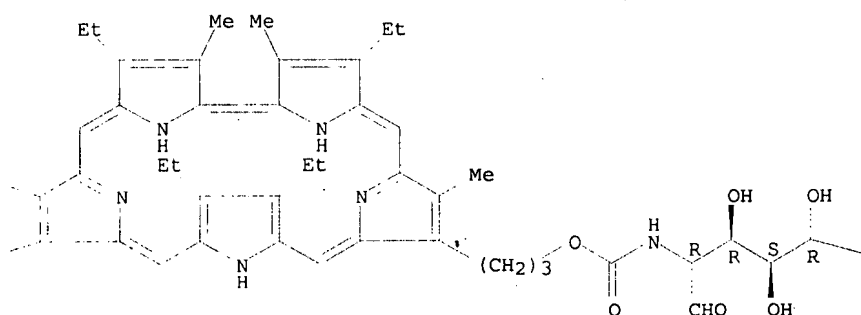
RN 936576-27-1 HCAPLUS  
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 25,26,27,28,29-pentaazahexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-  
 1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)bis(3,1-  
 propanediyl)oxycarbonylimino]]bis[2-deoxy- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PAGE 1-C

OH

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 2006:1236185 HCAPLUS  
DN 146:220114  
TI Tumor localization and antitumor efficacy of novel sapphyrin compounds  
AU Naumovski, Louie; Sirisawad, Mint; Lecane, Philip; Chen, Jun; Ramos, Jason; Wang, Zhong; Cortez, Cecilia; Magda, Darren; Thiemann, Patti; Boswell, Garry; Miles, Dale; Cho, Dong Gyu; Sessler, Jonathan L.; Miller, Richard  
CS Pharmacyclics, Inc., Sunnyvale, CA, USA  
SO Molecular Cancer Therapeutics (2006), 5(11), 2798-2805  
CODEN: MCTOCF; ISSN: 1535-7163  
PB American Association for Cancer Research  
DT Journal  
LA English  
AB Sapphyrins are pentapyrrolic metal-free expanded porphyrins with potential medical use as anticancer agents. The novel sapphyrin derivative, PCI-2050, functionalized with 2-[2-(2-methoxyethoxy)ethoxy]ethoxy groups to enhance

solubility and a modified bipyrrrole moiety was more potent in inducing apoptosis than the previously described sapphyrin PCI-2000. Because some sapphyrins may localize to tumors, we took advantage of the intrinsic fluorescence of these compds. to develop a flow cytometry-based assay to track sapphyrin biodistribution in tumor-bearing mice. Ex vivo anal. of sapphyrin-injected animals revealed that PCI-2050 preferentially localized to tumor, whereas PCI-2000 distributed into normal tissues rather than tumor. PCI-2050 uptake in xenograft tumor cells and resultant tumor cell cytotoxicity was dose dependent. To investigate structure-activity relationships, we focused on PCI-2050 and three derivs. that differ by their alkyl substituents on the bipyrrrole moiety: PCI-2051, PCI-2052, and PCI-2053. Treatment of Ramos cells in culture or treatment of Ramos xenograft-bearing animals with each of the sapphyrins followed by ex vivo growth of tumor cells revealed the same pattern of cytotoxicity: PCI-2050 > PCI-2052 > PCI-2051 > PCI-2053. Thus, subtle changes in the alkyl substituents on the bipyrrrole moiety result in significant changes in antitumor activity. PCI-2050 displayed significant antitumor efficacy in both Ramos and RKO xenograft models without hematol., hepatic, or renal abnormalities as assessed by complete blood counts and serum chemistries. On the basis of these findings, it is concluded that the sapphyrin PCI-2050 warrants further evaluation as a potential anticancer agent due to its intrinsic proapoptotic activity and tumor localization ability.

IT 924905-80-6, PCI 2050 924905-81-7, PCI 2051

924905-82-8, PCI 2052 924905-83-9, PCI 2053

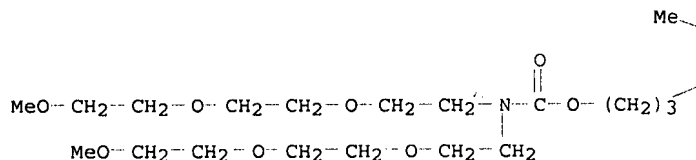
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tumor localization and antitumor efficacy of novel sapphyrin compds.)

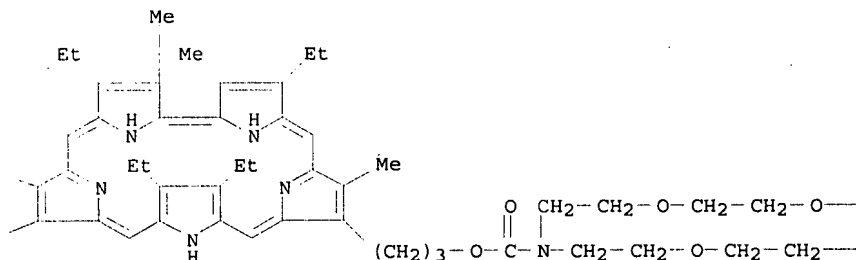
RN 924905-80-6 HCAPLUS

CN 5,8,11-Trioxa-2-azadodecanoic acid, 2-[2-[2-(2-methoxyethoxy)ethoxy]ethyl]-, 1,1'-[(4,13,14,23-tetraethyl-3,8,19,24-tetramethyl-25,26,27,28,29-pentaazahexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-propanediyl] ester (CA INDEX NAME)

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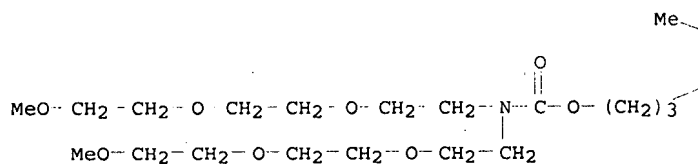




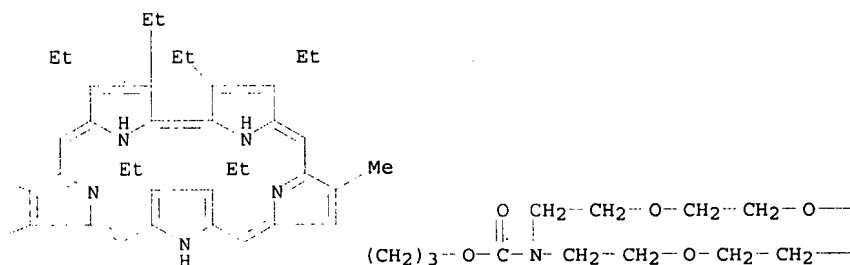
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PAGE 1-A



PAGE 1-B.



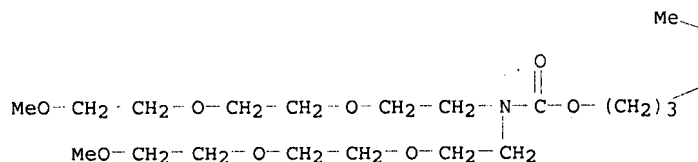
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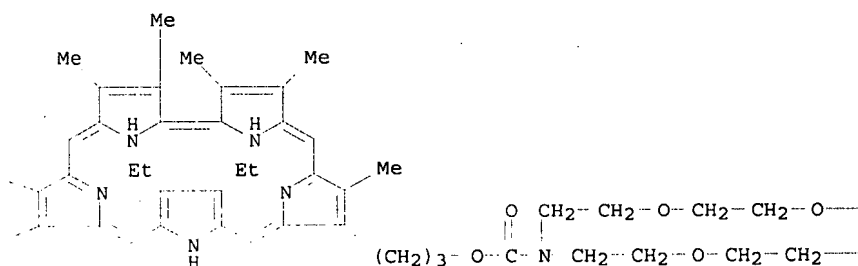
18/10/2007 Page 9

CN 5,8,11-Trioxa-2-azadodecanoic acid, 2-[2-[2-(2-methoxyethoxy)ethoxy]ethyl]-  
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 pentaazahexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-  
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PAGE 1-A



PAGE 1-B



PAGE 1-C

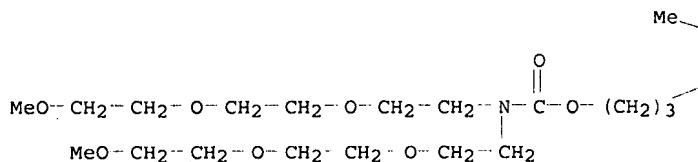
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— O—CH<sub>2</sub>—CH<sub>2</sub>—OMe

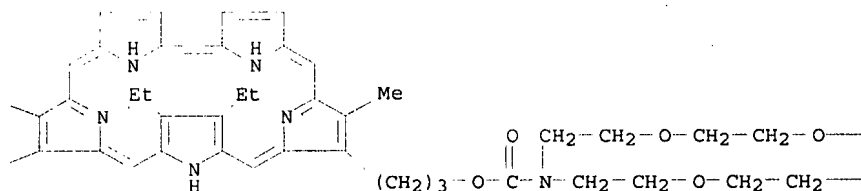
RN 924905-83-9 HCAPLUS

CN 5,8,11-Trioxa-2-azadodecanoic acid, 2-[2-[2-(2-methoxyethoxy)ethoxy]ethyl]-  
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 propanediyl] ester (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



PAGE 1-C

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RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN  
AN 2005:511839 HCAPLUS  
DN 143:259655  
TI Sapphyrins induce apoptosis in hematopoietic tumor-derived cell lines and show in vivo antitumor activity  
AU Naumovski, Louie; Ramos, Jason; Sirisawad, Mint; Chen, Jun; Thiemann, Patti; Lecane, Philip; Magda, Darren; Wang, Zhong; Cortez, Cecilia; Boswell, Garry; Cho, Dong Gyu; Sessler, Jonathan; Miller, Richard  
CS Pharmacyclics, Inc., Sunnyvale, CA, 94085, USA  
SO Molecular Cancer Therapeutics (2005), 4(6), 968-976  
CODEN: MCTOCF; ISSN: 1535-7163  
PB American Association for Cancer Research  
DT Journal  
LA English  
AB Sapphyrins are pentapyrrolic, metal-free, expanded porphyrins. In the present study, the activity of sapphyrins as anticancer agents in hematopoietic-derived tumor cells was explored. It was found that a dihydroxylated water-soluble sapphyrin derivative (PCI-2000) is a potent inducer of apoptosis in a wide variety of tumor cell lines including lymphoma (Ramos, DHL-4, and HF-1), leukemia (Jurkat and HL-60), and myeloma (8226/S, 1-310, C2E3, and 1-414). PCI-2000 triggers an apoptotic pathway in these tumor cells as shown by release of cytochrome c from mitochondria; activation of caspases 9, 8, and 3; cleavage of the caspase substrate poly(ADP-ribose) polymerase; and Annexin V binding. Apoptosis can be partially inhibited by overexpression of the antiapoptotic protein Bcl-2 or treatment with benzyloxycarbonyl-valine-alanine-aspartic acid-fluoromethylketone, a cell-permeable caspase inhibitor. Both PCI-2000 and PCI-2010, a tetrahydroxy bis-carbamate derivative of PCI-2000, result in increased levels of phosphorylated p38 mitogen-activated protein kinase. Inhibition of p38 mitogen-activated protein kinase

phosphorylation resulted in a synergistic increase of PCI-2000 cytotoxicity. PCI-2010 showed less toxicity in mice than PCI-2000 and was active in slowing the growth of Ramos and HL-60 tumor xenografts in nude mice. These results provide preclin. rationale for the further study of sapphyrins for potential use in the treatment of hematopoietic-derived tumors.

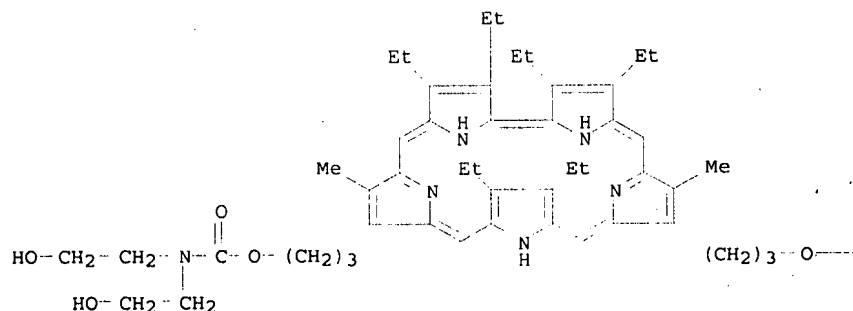
IT 777931-97-2, PCI 2010

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (sapphyrins induce apoptosis in hematopoietic tumor-derived cell lines and show antitumor activity)

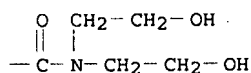
RN 777931-97-2 HCAPLUS

CN Carbamic acid, bis(2-hydroxyethyl)-, (3,4,13,14,23,24-hexaethyl-8,19-dimethyl-25,26,27,28,29-pentaazahehexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-propanediyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:872660 HCAPLUS

DN 141:360663

TI Sapphyrins and their uses to treat neoplasm

IN Magda, Darren; Sessler, Jonathan L.; Wang, Zhong

PA Pharmacyclics, Inc., USA; Board of Regents, University of Texas System

SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

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 2004WO-US10481 W 20040405

OS MARPAT 141:360663

AB The present invention relates to sapphyrins, their pharmaceutical composition, and their utility in treating neoplasm. For example, carbamate-linked tetrahydroxy-sapphyrin was prepared. Bishydroxypropyl-sapphyrin (100 mg, 0.145 mmol) and 186 mg (0.725 mmol) of N,N'-disuccinimidyl carbonate were placed in a Schlenk tube, and 187 mg (1.45 mmol) of diisopropylethylamine and 5 mL CH<sub>2</sub>Cl<sub>2</sub> were added, and the reaction mixture was stirred at room temperature for 4 h. Diethanolamine (152 mg, 1.45 mmol) dissolved in 1 mL CH<sub>2</sub>Cl<sub>2</sub> was added, and the resulting mixture was stirred for another hour. The reaction mixture was concentrated to give an oily residue, and purified to yield 75 mg (51%) of tetrahydroxy-carbamate-sapphyrin (as monoacetate). Also, the effects of various sapphyrins when added to Ramos cells in causing cell death were presented.

IT 777931-97-2P 777931-98-3P

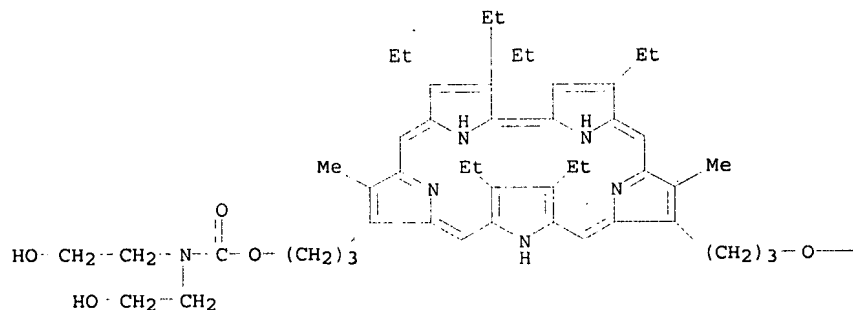
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(preparation of sapphyrins for treatment of neoplasm)

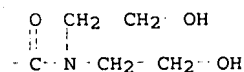
RN 777931-97-2 HCAPLUS

CN Carbamic acid, bis(2-hydroxyethyl)-, (3,4,13,14,23,24-hexaethyl-8,19-dimethyl-25,26,27,28,29-pentaazahexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-propanediyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

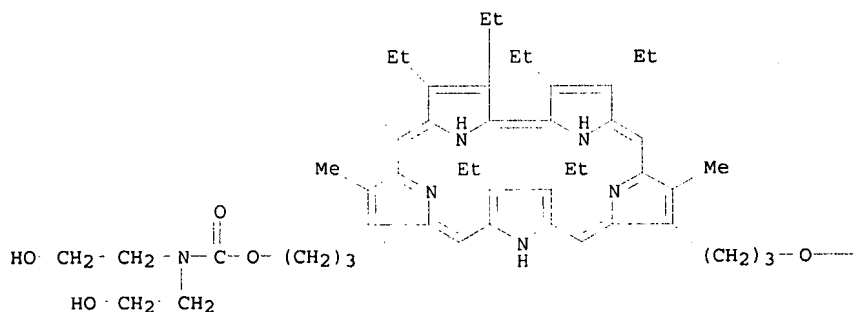


RN 777931-98-3 HCAPLUS  
 CN Carbamic acid, bis(2-hydroxyethyl)-, (3,4,13,14,23,24-hexaethyl-8,19-dimethyl-25,26,27,28,29-pentaazahehexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-diyl)di-3,1-propanediyl ester, monoacetate (salt) (9CI) (CA INDEX NAME)

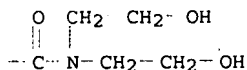
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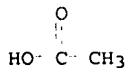


PAGE 1-B



CM 2

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 CMF C2 H4 O2



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L20 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:314979 HCAPLUS

DN 145:7911

TI Synthesis and Diels-Alder reaction of a sapphyrin derivative

AU Tome, Joao P. C.; Cho, Dong-Gyu; Sessler, Jonathan L.; Neves, Maria G. P. M. S.; Tome, Augusto C.; Silva, Artur M. S.; Cavaleiro, Jose A. S.

CS Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX, 78712-0165, USA

SO Tetrahedron Letters (2006), 47(18), 3131-3134

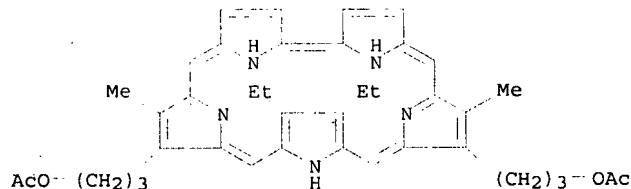
CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier B.V.

DT Journal

LA English

OS CASREACT 145:7911  
 AB Sapphyrins participate in Diels-Alder reactions with pentacene affording novel barrelene-fused sapphyrins. The new compds. were synthesized using traditional heating and microwave irradiation conditions. The expts. carried out under microwave irradiation proved cleaner, affording only the monoadduct and in higher yields.  
 IT 888028-62-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (synthesis and Diels-Alder reaction of a sapphyrin derivative)  
 RN 888028-62-4 HCAPLUS  
 CN 25,26,27,28,29-Pentaazahexacyclo[20.2.1.12,5.17,10.112,15.117,20]nonacosa-1,3,5,7(28),8,10,12,14,16,18,20(26),21,23-tridecaene-9,18-dipropanol, 13,14-diethyl-8,19-dimethyl-, diacetate (ester) (9CI) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 ACT J696C1/A

L2 STR  
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FILE 'REGISTRY' ENTERED AT 14:52:01 ON 18 OCT 2007

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 L6 9 L4 FULL SUB=L3  
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 L11 1 L10 AND L1  
 E MAGDA D/AU  
 L12 73 E3,E6-7  
 L13 4 L10 AND L12  
 L14 4 L11,L13

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L4	17	I2 not I3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/18 14:25